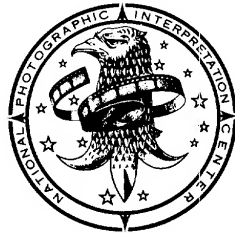


Basic Imagery Interpretation Report



NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

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PENZA COMMAND CONTROL RADIO RECEIVER STATION, HARDENED (PENZA HF COMMUNICATIONS FACILITY, RECEIVING)

25X1

DEPLOYED COMM/ELEC/RADAR FACILITIES
USSR
MAY 1969

COPY NO.

7 PAGES

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INSTALLATION OR ACTIVITY NAME Penza Command Control Radio Receiver Station, Hardened (Penza HF Communications Facility, Receiving)		COUNTRY UR
UTM COORDINATES NA	GEOGRAPHIC COORDINATES 53-09-50N 045-18-30E	
MAP REFERENCE ACIC. US Air Target Chart 200, Sheet M0166-19HL, 3d ed, Mar 68, Scale 1:200,000 (SECRET/		
LATEST IMAGERY USED	NEGATION DATE (if required)	

ABSTRACT

This report is a photographic analysis of the Penza Command Control Radio Receiver Station, Hardened (Penza HF Communications Facility, Receiving). It contains an annotated photograph of the installation and provides measurements of the antennas and buildings. It also contains a map showing azimuthal projections of the antennas.

The facility consists of control and support areas and contains 16 fishbone antennas, eight double rhombic antennas, five hardened (subsurface) antennas, eight horizontal dipole antennas, two earth-covered buildings, 36 support buildings, and a water tower.

INTRODUCTION

The Penza HF Communications Facility, Receiving (Figures 1 and 2) is located approximately 10 nautical miles (nm) east-southeast of Penza, USSR. It is situated in a forested area at an elevation of approximately 800 feet above sea level. Vegetation was cleared for the construction of the antennas and support buildings. The facility is secured by fence. The control and support areas are separately secured within the secured facility. The related transmitting facility is the Penza HF Communications Facility, Transmitting 10 nm to the north.

BASIC DESCRIPTION

The facility contains 16 fishbone antennas, eight double rhombic antennas, five hardened (subsurface) antennas, and eight horizontal dipole antennas. The fishbone antennas are arranged in eight space-diversified pairs, with both antennas in each pair having the same azimuth. The double rhombic antennas are arranged in four space-diversified pairs. Feedlines were identified through the centers of five of the double rhombic antennas indicating that they are switchable and are capable of receiving from either direction. The other three double rhombic antennas receive from only one direction. Not all of the masts for the horizontal dipole antennas could be identified, but there appear to be at least eight horizontal dipole antennas, inasmuch as eight feedlines were identified. These are arranged in two groups with four horizontal dipole antennas in each group.

The secured control area contains five hardened (subsurface) antennas, an earth-covered control building, and seven other buildings. One of the buildings was constructed on top of the control building after the control building was earth covered.

The support area contains an earth-covered building, 21 support buildings, and a water tower. One building was constructed on top of the earth-covered building; another building is still under construction.

There are eight other buildings outside the security fence of the support area but within the security fence of the facility. An electrical power transformer station is located approximately 1 nm west of the facility, but a powerline could not be identified leading to the facility.

Status and Activity

Construction of this facility began at some date between [redacted] of some of the antennas by [redacted] Vegetation had been cleared for construction [redacted]

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The facility appears to be near operational status, although one of the support buildings is still under construction.

The specific function of this facility within the Soviet command control system has not been established.

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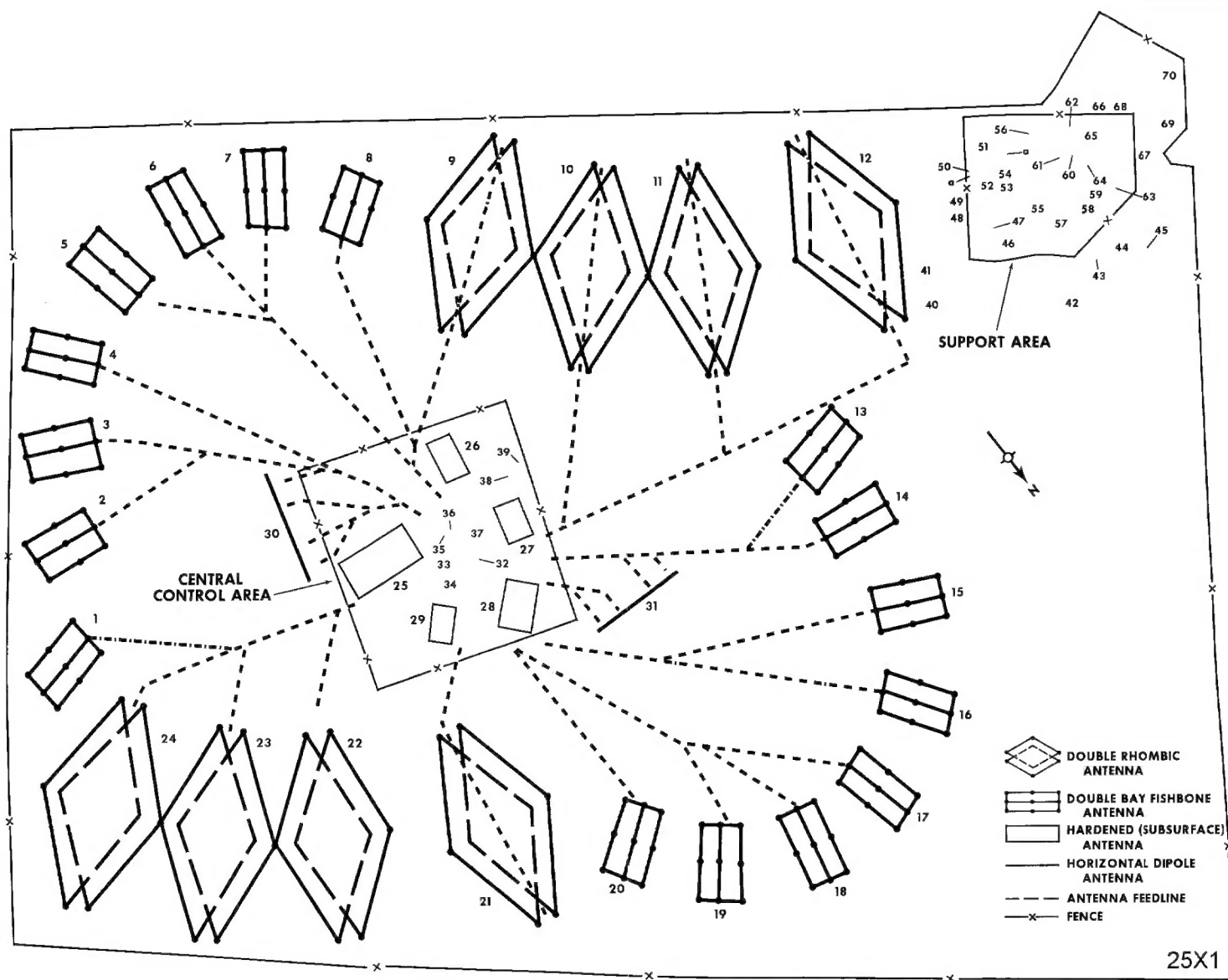
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FIGURE 2. PENZA COMMAND CONTROL RADIO RECEIVER STATION, HARDENED.

- 5 -

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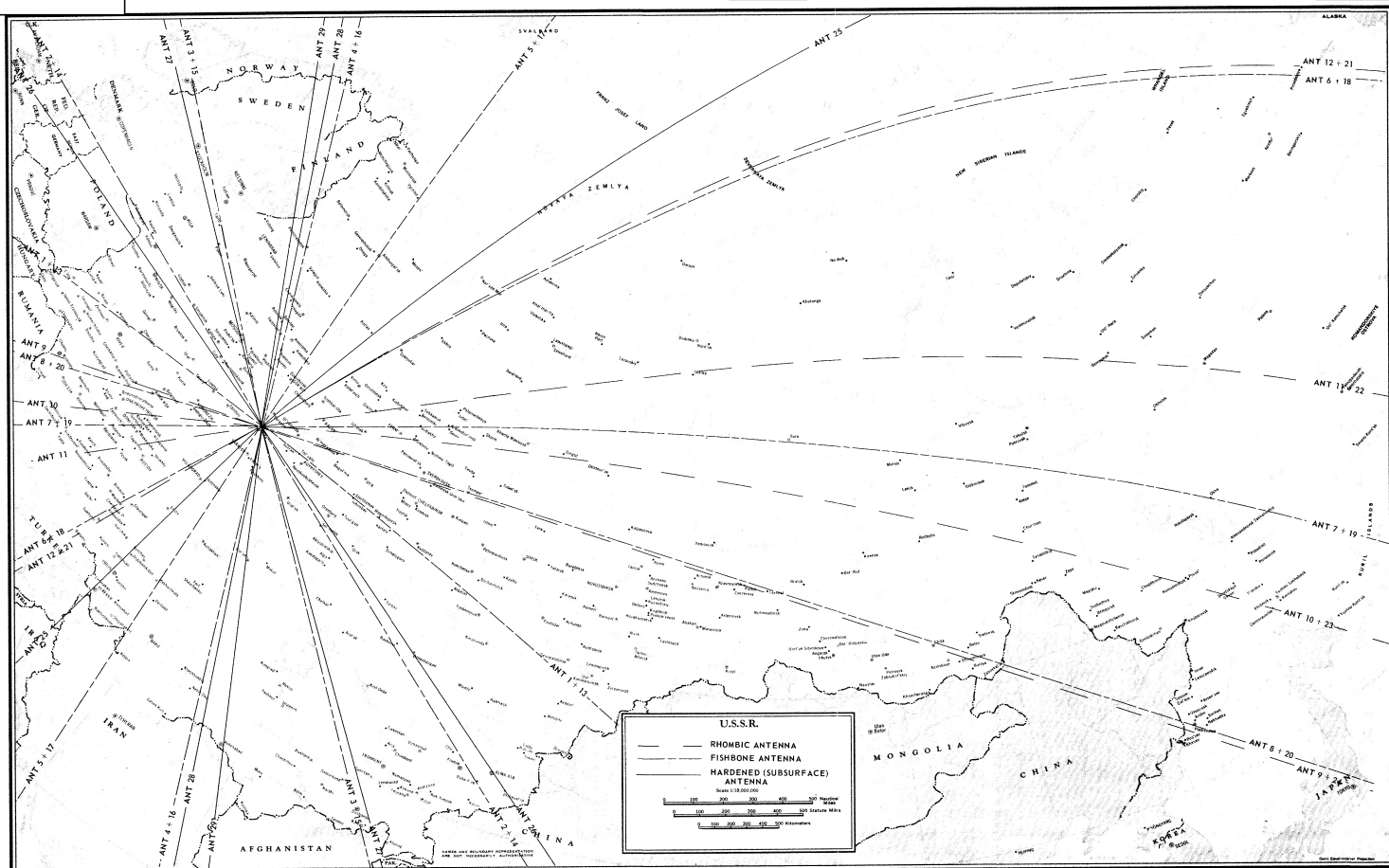


FIGURE 3. AZIMUTHS OF ANTENNAS.

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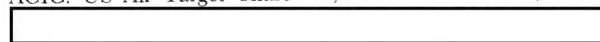


MAPS OR CHARTS

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ACIC. US Air Target Chart 200, Sheet M0166-19IIL, 3d ed, Mar 68, Scale 1:200,000 (SECRET/

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REQUIREMENT

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